



#6
OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/932,172A

DATE: 05/29/2002
TIME: 16:24:14

Input Set : A:\STEM1110-3.ST25.txt
Output Set: N:\CRF3\05292002\I932172A.raw

2 <110> APPLICANT: STEM CELL PHARMACEUTICALS, INC.
3 TWARDZIK, Daniel R.
4 PERNET, Andre
5 FELKER, Thomas S.
6 PASKELL, Stefan

ENTERED

8 <120> TITLE OF INVENTION: TGF-alpha POLYPEPTIDES, FUNCTIONAL FRAGMENTS AND METHODS OF
USE THEREFOR

10 <130> FILE REFERENCE: STEM1110-3
12 <140> CURRENT APPLICATION NUMBER: US 09/932,172A
13 <141> CURRENT FILING DATE: 2001-08-17
15 <150> PRIOR APPLICATION NUMBER: US 09/641,587
16 <151> PRIOR FILING DATE: 2000-08-17
18 <150> PRIOR APPLICATION NUMBER: US 09/492,935
19 <151> PRIOR FILING DATE: 2000-01-27
21 <150> PRIOR APPLICATION NUMBER: US 09/378,567
22 <151> PRIOR FILING DATE: 1999-08-19
24 <160> NUMBER OF SEQ ID NOS: 7
26 <170> SOFTWARE: PatentIn version 3.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 50
30 <212> TYPE: PRT
31 <213> ORGANISM: Homo sapiens
33 <400> SEQUENCE: 1
35 Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe Cys
36 1 5 10 15
38 Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala Cys
39 20 25 30
41 Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp Leu
42 35 40 45
44 Leu Ala
45 50
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 50
49 <212> TYPE: PRT
50 <213> ORGANISM: Rattus norvegicus
52 <400> SEQUENCE: 2
54 Val Val Ser His Phe Asn Lys Cys Pro Asp Ser His Thr Gln Tyr Cys
55 1 5 10 15
57 Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Lys Pro Ala Cys
58 20 25 30
60 Val Cys His Ser Gly Tyr Val Gly Val Arg Cys Glu His Ala Asp Leu
61 35 40 45
63 Asp Ala
64 50

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66 <210> SEQ ID NO: 3
 67 <211> LENGTH: 57
 68 <212> TYPE: PRT
 69 <213> ORGANISM: Artificial sequence
 71 <220> FEATURE:
 72 <223> OTHER INFORMATION: Modified human TGF-alpha sequence
 74 <400> SEQUENCE: 3
 76 Ser Leu Ser Leu Pro Ala Met Val Val Ser His Phe Asn Asp Cys Pro
 77 1 5 10 15
 79 Asp Ser His Thr Gln Phe Cys Phe His Gly Thr Cys Arg Phe Leu Val
 80 20 25 30
 82 Gln Glu Asp Lys Pro Ala Cys Val Cys His Ser Gly Tyr Val Gly Ala
 83 35 40 45
 85 Arg Cys Glu His Ala Asp Leu Leu Ala
 86 50 55
 88 <210> SEQ ID NO: 4
 89 <211> LENGTH: 11
 90 <212> TYPE: PRT
 91 <213> ORGANISM: Artificial sequence
 93 <220> FEATURE:
 94 <223> OTHER INFORMATION: Modified human TGF-alpha sequence fragment
 96 <220> FEATURE:
 97 <221> NAME/KEY: VARIANT
 98 <222> LOCATION: (1)..(10)
 99 <223> OTHER INFORMATION: Xaa at residue 1, 5, 7 to 9 is independently V, G or A; Xaa
 at residue 6 is Y or F; and Xaa at residue 10 is R or K
 100 <400> SEQUENCE: 4
 104 Xaa Cys His Ser Xaa Xaa Xaa Xaa Xaa Cys
 105 1 5 10
 107 <210> SEQ ID NO: 5
 108 <211> LENGTH: 7
 109 <212> TYPE: PRT
 110 <213> ORGANISM: Artificial sequence
 112 <220> FEATURE:
 113 <223> OTHER INFORMATION: Modified human TGF-alpha sequence fragment
 115 <220> FEATURE:
 116 <221> NAME/KEY: VARIANT
 117 <222> LOCATION: (1)..(7)
 118 <223> OTHER INFORMATION: Xaa at residue 1 and 4 is E or D; Xaa at residue 3 and 7 is
 V, G,
 119 or A; Xaa at residue 5 is L or I; and Xaa at residue 6 is D or E
 122 <400> SEQUENCE: 5
 124 Xaa His Xaa Xaa Xaa Xaa Xaa
 125 1 5
 127 <210> SEQ ID NO: 6
 128 <211> LENGTH: 18
 129 <212> TYPE: PRT
 130 <213> ORGANISM: Artificial sequence
 132 <220> FEATURE:
 133 <223> OTHER INFORMATION: Modified human TGF-alpha sequence fragment

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135 <220> FEATURE:
136 <221> NAME/KEY: VARIANT
137 <222> LOCATION: (1)..(18)
138 <223> OTHER INFORMATION: Xaa at residue 1, 5, 7-9, 14, 18 is indep. V, G, or A; Xaa

at

139 residue 6 is Y or F; Xaa at residue 10 is R or K; Xaa at residue 12,
140 15 is indep. E or D; Xaa at residue 16 is L or I; Xaa at residue
141 17 is D or E

143 <400> SEQUENCE: 6

W--> 145 Xaa Cys His Ser Xaa Xaa Xaa Xaa Xaa Cys Xaa His Xaa Xaa Xaa

W--> 146 1 5 10 15

W--> 148 Xaa Xaa

151 <210> SEQ ID NO: 7

152 <211> LENGTH: 7

153 <212> TYPE: PRT

154 <213> ORGANISM: Artificial sequence

156 <220> FEATURE:

157 <223> OTHER INFORMATION: Modified human TGF-alpha sequence fragment

159 <220> FEATURE:

160 <221> NAME/KEY: VARIANT

161 <222> LOCATION: (1)..(7)

162 <223> OTHER INFORMATION: Xaa at residue 1 and 2 is indep. V, G, and A; Xaa at residue

7 is

163 K or D

W--> 165 <400> SEQUENCE: 7

W--> 167 Xaa Xaa Ser His Phe Asn Xaa

168 1 5

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 1, 5, 6, 7, 8, 9, 10
Seq#:5; Xaa Pos. 1, 3, 4, 5, 6, 7
Seq#:6; Xaa Pos. 1, 5, 6, 7, 8, 9, 10, 12, 14, 15, 16, 17, 18
Seq#:7; Xaa Pos. 1, 2, 7

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 8